

Stainless Steel, Nickel Alloy & Titanium Tubing

For information about metal tubing, see [page 92](#).

Stainless Steel Gauged Micro Tubing

Also known as hypodermic tubing, gauged micro tubing is used for precise flow and miniature applications. Welded and drawn, it is hard-tempered for excellent machinability and has high tensile strength. Temperature range is -425° to +600° F. Meets GG-N-196.

Standard tubing offers rigidity and mechanical strength.

Thin-wall tubing has more internal room for increased flow capacity.

Extra-thin-wall tubing features the best flow capacity per OD.

Choose from individual sizes and assortments, both sold in 12" standard lengths. Each size comes individually packaged and labeled with gauge size. **To Order:** For individual sizes, please specify gauge.

Standard Tubing

Max. psi at 72° F				Max. psi at 72° F			
Ga.	OD	ID	Wall	Ga.	OD	ID	Wall
5	.219"	.189"	.015"	20	.0355"	.0235"	.006"
6	.203"	.173"	.015"	21	.032"	.020"	.006"
7	.180"	.150"	.015"	22	.028"	.016"	.006"
8	.165"	.135"	.015"	23	.025"	.013"	.006"
9	.148"	.118"	.015"	24	.022"	.012"	.005"
10	.134"	.106"	.014"	25	.020"	.010"	.005"
11	.120"	.094"	.013"	26	.018"	.010"	.004"
12	.109"	.085"	.012"	27	.016"	.008"	.004"
13	.095"	.071"	.012"	28	.014"	.007"	.0035"
14	.083"	.063"	.010"	29	.013"	.007"	.003"
15	.072"	.054"	.009"	30	.012"	.006"	.003"
16	.065"	.047"	.009"	31	.010"	.005"	.0025"
17	.058"	.042"	.008"	32	.009"	.004"	.0025"
18	.050"	.033"	.0085"	33	.008"	.004"	.002"
19	.042"	.027"	.0075"				

Individual Sizes

Type 304 Stainless Steel	8988K41	Each	\$3.94
Type 316 Stainless Steel	89875K51	Each	\$8.57

Assortments			
Gauge	Pieces		Each
Type 304	12-30	19 (1 of each gauge)	8988K11 \$71.11
Type 304	12-30	38 (2 of each gauge)	8988K16 127.66
Type 304	12-21	20 (2 of each gauge)	8988K12 71.11
Type 304	21-30	20 (2 of each gauge)	8988K13 71.11
Type 316	12-30	19 (1 of each gauge)	89875K71 120.93

Thin-Wall Tubing

Max. psi at 72° F				Max. psi at 72° F			
Ga.	OD	ID	Wall	Ga.	OD	ID	Wall
5	.219"	.199"	.010"	17	.058"	.048"	.005"
6	.203"	.183"	.010"	18	.050"	.038"	.006"
7	.180"	.160"	.010"	19	.042"	.032"	.005"
8	.165"	.145"	.010"	20	.0355"	.0255"	.005"
9	.148"	.128"	.010"	21	.032"	.023"	.0045"
10	.134"	.114"	.010"	22	.028"	.020"	.004"
11	.120"	.100"	.010"	23	.025"	.017"	.004"
12	.109"	.091"	.009"	24	.022"	.014"	.004"
13	.095"	.077"	.009"	25	.020"	.012"	.004"
14	.083"	.067"	.008"	26	.018"	.012"	.003"
15	.072"	.060"	.006"	27	.016"	.010"	.003"
16	.065"	.053"	.006"				

Individual Sizes

Type 304 Stainless Steel	8987K41	Each	\$5.15
Type 316 Stainless Steel	89935K61	Each	\$10.65

Assortments			
Gauge	Pieces		Each
Type 304	10-25	16 (1 of each gauge)	8987K11 \$71.11
Type 316	10-25	16 (1 of each gauge)	89935K81 130.23

Extra-Thin-Wall Tubing

Max. psi at 72° F				Max. psi at 72° F			
Ga.	OD	ID	Wall	Ga.	OD	ID	Wall
3	.259"	.239"	.010"	15	.072"	.063"	.0045"
4	.238"	.218"	.010"	16	.065"	.055"	.005"
5	.219"	.205"	.007"	17	.058"	.050"	.004"
6	.203"	.189"	.007"	18	.050"	.042"	.004"
7	.180"	.166"	.007"	19	.042"	.035"	.0035"
8	.165"	.150"	.0075"	20	.0355"	.0275"	.004"
9	.148"	.135"	.0065"	21	.032"	.025"	.0035"
10	.134"	.118"	.008"	22	.028"	.021"	.0035"
11	.120"	.106"	.007"	23	.025"	.020"	.0025"
12	.109"	.095"	.007"	24	.022"	.016"	.003"
13	.095"	.085"	.005"	25	.020"	.016"	.002"
14	.083"	.072"	.0055"				

Individual Sizes

Type 304 Stainless Steel	5560K31	Each	\$6.29
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Assortments			
Gauge	Pieces		Each
Type 304	10-25	16 (1 of each gauge)	5560K51 \$95.93

Type 304 Stainless Steel Fractional Micro Tubing



Similar to gauged micro tubing at left, but offered in fractional sizing. Tubing is welded and drawn and has high tensile strength. Hard-tempered for excellent machinability. Its temperature range is -425° to +600° F. Meets ASTM A908. Sold in 28" straight lengths.

OD	ID	Wall	Max. psi at 72° F	Each
3/32"	0.0838"	0.005"	3500	6100K111 \$10.81
3/32"	0.0538"	0.020"	3500	6100K141 10.81
1/8"	0.115"	0.005"	3500	6100K112 11.61
1/8"	0.085"	0.020"	3500	6100K142 11.61
1/8"	0.055"	0.035"	3500	6100K162 11.61
5/32"	0.1462"	0.005"	3500	6100K113 12.74
5/32"	0.1162"	0.020"	3500	6100K143 12.74
5/32"	0.0862"	0.035"	3500	6100K163 12.74
3/16"	0.1775"	0.005"	3500	6100K114 13.87
3/16"	0.1475"	0.020"	3500	6100K144 13.87
3/16"	0.1175"	0.035"	3500	6100K164 13.87
7/32"	0.2088"	0.005"	3500	6100K115 15.16
7/32"	0.1788"	0.020"	3500	6100K145 15.16
7/32"	0.1488"	0.035"	3500	6100K165 15.16
1/4"	0.24"	0.005"	3500	6100K116 16.45
1/4"	0.21"	0.020"	3500	6100K146 16.45
1/4"	0.18"	0.035"	3500	6100K166 16.45
5/16"	0.2725"	0.020"	3500	6100K147 17.90
5/16"	0.2425"	0.035"	3500	6100K167 17.90

Alloy 600 Inconel Tubing

Inconel is a nickel-chromium alloy with good oxidation resistance at high temperatures. Seamless tubing resists cracking and corrosion caused by stress and caustic substances. Often used for thermocouple protection tubing. Its temperature range is -205° to +1200° F. Meets ASTM B163. Use with compression fittings. Sold in 6-ft. straight lengths.

OD	ID	Wall	Max. psi at 72° F	Each
1/4"	0.18"	0.035"	4203	89865K33 \$57.77
3/8"	0.305"	0.035"	2821	89865K47 76.00
3/8"	0.277"	0.049"	3949	89865K52 91.54
1/2"	0.43"	0.035"	2123	89865K55 136.42
1/2"	0.402"	0.049"	2972	89865K57 147.78
1/2"	0.37"	0.065"	3942	89865K59 152.31
3/4"	0.62"	0.065"	2637	89865K62 187.28

Alloy 400 Monel Tubing

A nickel-copper alloy, Monel offers mechanical strength and resistance to corrosion caused by salt water, hydrofluoric and sulfuric acids, and alkalies. Good for hydrocarbon processing equipment. Tubing is seamless. Its temperature range is -400° to +800° F. Meets ASTM B163. Use with compression fittings. Sold in 6-ft. straight lengths.

OD	ID	Wall	Max. psi at 72° F	Each
1/4"	0.18"	0.035"	4203	89795K13 \$59.67
3/8"	0.305"	0.035"	2821	89795K17 71.33
3/8"	0.277"	0.049"	3949	89795K22 118.28
1/2"	0.43"	0.035"	2123	89795K25 104.33
1/2"	0.402"	0.049"	2972	89795K27 135.17
1/2"	0.37"	0.065"	3942	89795K29 157.83
3/4"	0.62"	0.065"	2712	89795K31 183.57

Titanium Tubing

Tubing is made of commercially pure Grade 2 titanium, the most common pure grade for industrial use. It has a high strength-to-weight ratio and excellent corrosion resistance in fresh and salt water, acid, and chlorides. Great for chemical, marine, and aerospace applications. Tubing with an OD of 1/4" to 3/8" is seamless; tubing with an OD of 1/2" to 2" is welded.

Temp. range is -320° to +600° F. Meets ASTM B338. Use with compression fittings. Not pressure rated. Sold in 5-ft. straight lengths.

OD	ID	Wall	Each
1/4"	0.18"	0.035"	89835K51 \$212.50
3/8"	0.305"	0.035"	89835K52 208.33
1/2"	0.43"	0.035"	89835K53 60.67
3/4"	0.68"	0.035"	89835K54 64.05
1"	0.902"	0.049"	89835K55 99.84
2"	1.902"	0.049"	89835K56 253.21